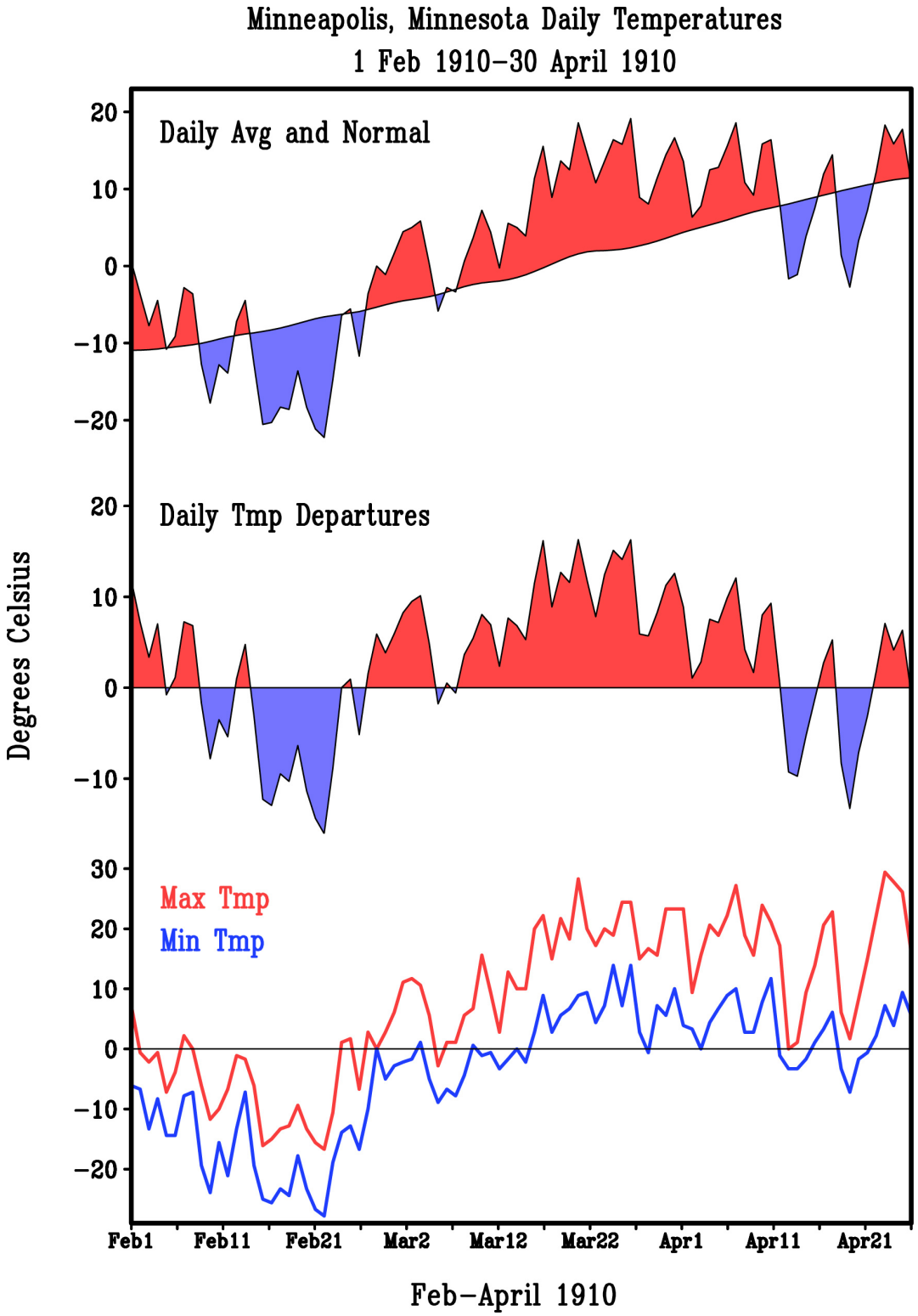

Figure S1. As in Figure 3 for Minneapolis, Minnesota temperature time series for Feb-April 1910.

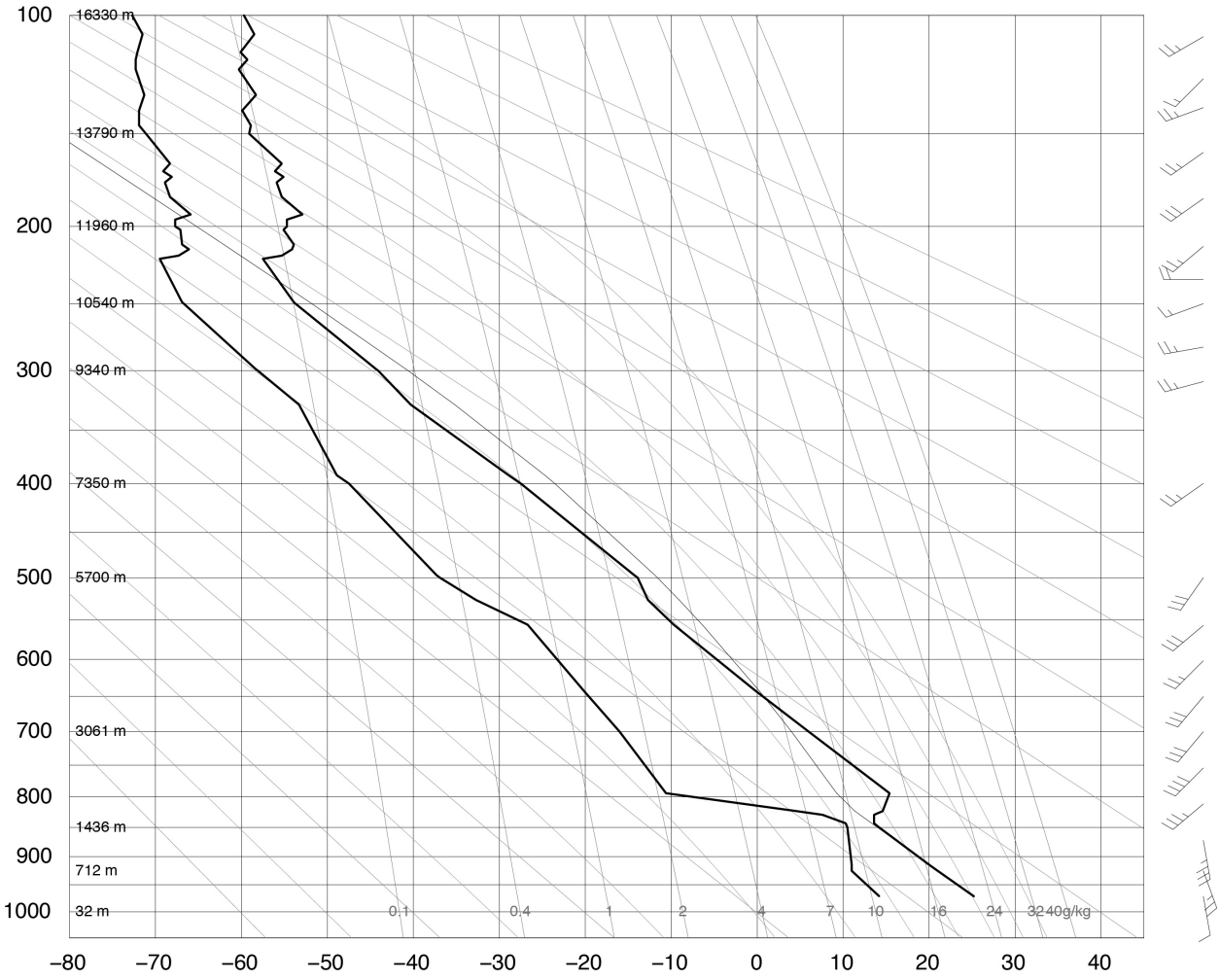

Figure S2. Radiosonde data from the surface to 100 hPa of temperatures and dewpoints (ºC) and winds for Chanhassen (Minneapolis, MPX) on March 19 2012 00Z.

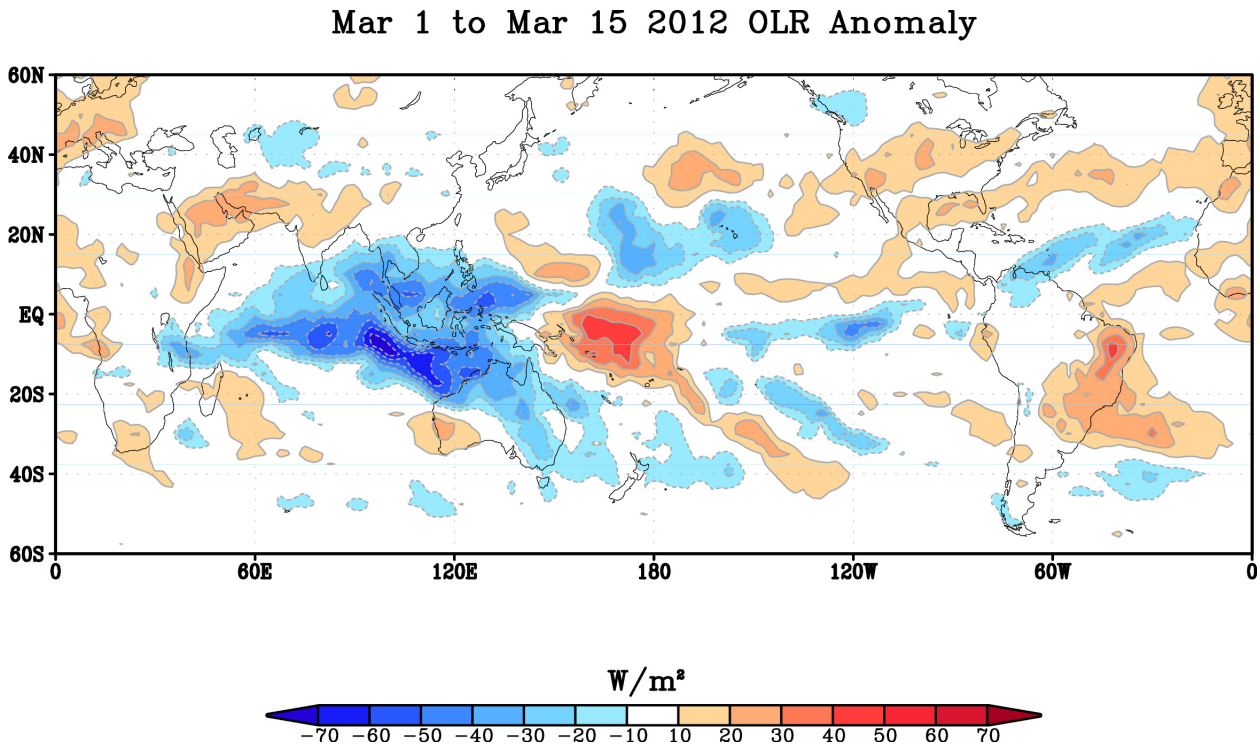

Figure S3. Time-mean OLR over March 1-15 2012 (W m^{-2}). Data source as in Figure 2.

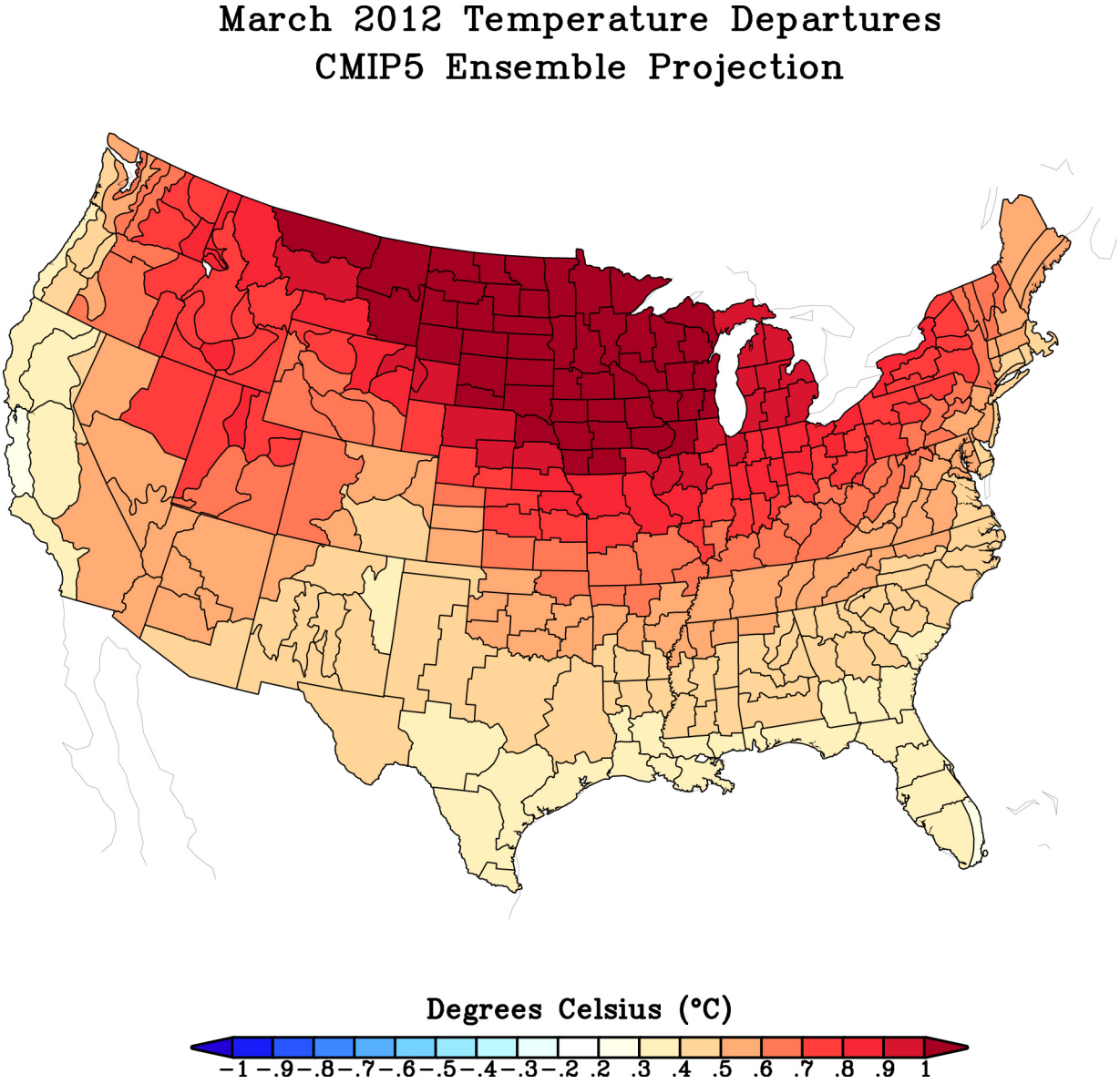

Figure S4. CMIP5 ensemble average of projected March 2012 temperatures anomalies (in ºC relative to model 1981-2010 climatology).

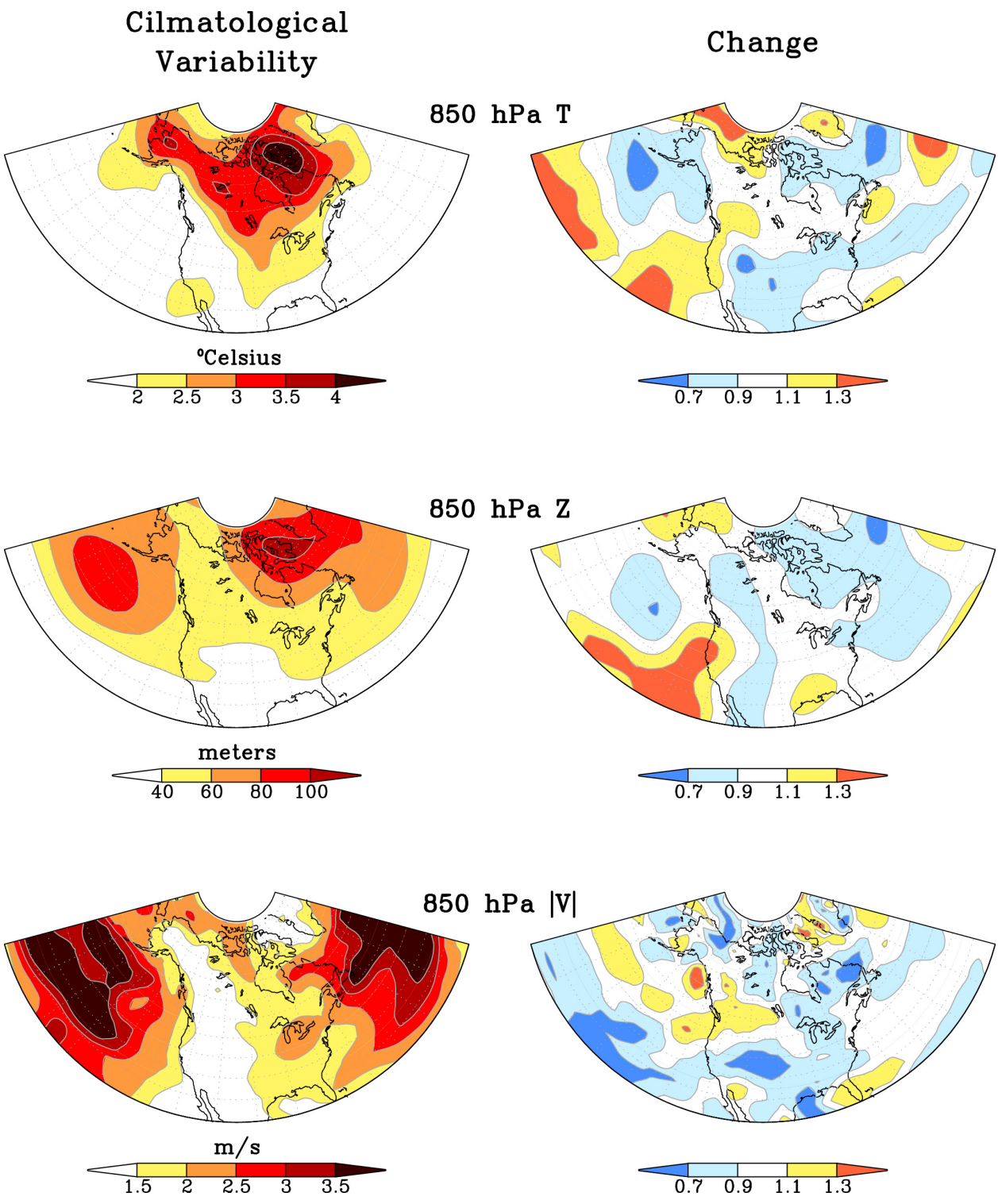

Figure S5. Standard deviation of monthly March 850 hPa temperature (top), 850 hPa geopotential height (middle) and 850 hPa meridional wind speed (bottom) over the base period 1961-1990 (left) and the ratio of standard deviations for 1991-2011 relative to 1961-1990 (right). [Data source: NCEP/NCAR reanalysis].

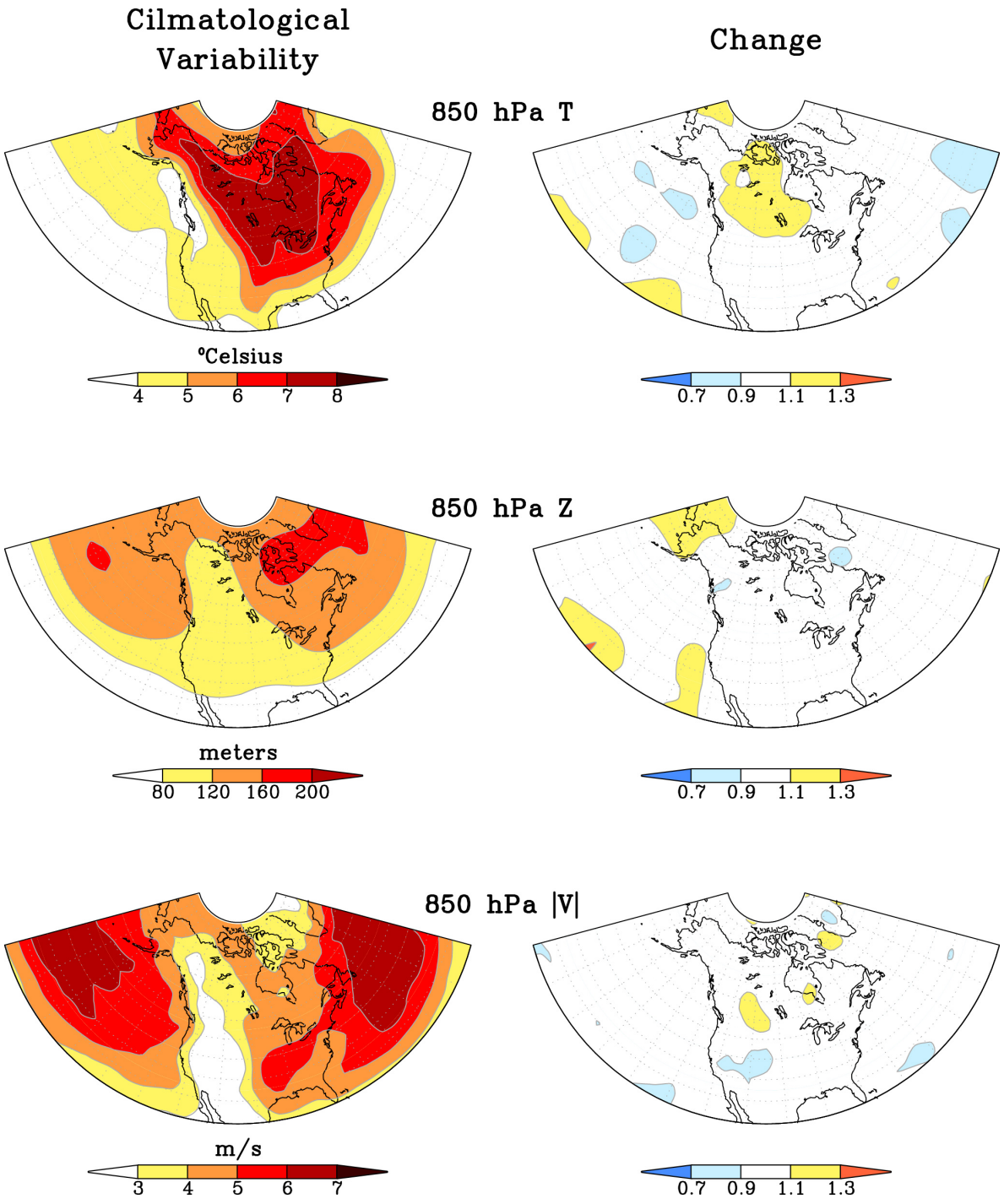

Figure S6. As in Supplementary Figure 5 but for standard deviations of daily temperatures in March (left) for 1961-90 and the ratio of standard deviations for 1991-2011 relative to 1961-90 (right). Contour intervals for the 1961-1990 base period (left panels) are doubled relative to monthly values in Figure S5.